

PTO/SB/08A (10-01)

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Substitute for form 1495

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 22

Complete if Known

Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123.2US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
MM		4,487,829	12/11/84	Sharp et al.	
		4,517,686	05/21/85	Ruoslathi et al.	
		4,578,079	03/25/86	Ruoslathi et al.	
		4,589,881	05/20/86	Pierschbacher et al.	
		4,593,002	06/03/86	Dulbecco	
		4,792,525	12/20/88	Ruoslathi et al.	
		4,797,368	01/10/89	Carter et al.	
		4,956,281	09/11/90	Wallner et al.	
		5,024,939	06/18/91	Gorman	
		5,096,815	03/17/92	Ladner et al.	
		5,166,320	11/24/92	Wu et al.	
		5,198,346	03/30/93	Ladner et al.	
		5,204,445	04/20/93	Flow et al.	
		5,223,394	06/29/93	Wallner	
		5,223,409	06/29/93	Ladner et al.	
		5,240,846	08/31/93	Collins et al.	
		5,246,921	09/21/93	Reddy et al.	
		5,332,567	07/26/94	Goldenberg	
		5,349,053	09/20/94	Landolfi	
MM		5,403,484	04/04/95	Ladner et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
MM		EP 259212	08/11/87	Transgene S.A.		
		WO 91/00360	01/10/91	Medarex, Inc.		
		WO 91/05871	05/02/91	Medarex, Inc.		
		WO 91/05805	05/02/91	Trustees of Dartmouth College		
		WO 92/02553	02/20/92	Delta Bi-Technology Limited		
MM		WO 92/13081	08/06/92	British Technology Group PLC		

Examiner
Signature

MM Marvich

Date
Considered

5/10/05

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**INFORMATION DISCLOSURE
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of

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		Number - Kind Code ² (if known)			
MM		5,436,146	07/25/95	Shenk et al.	
		5,443,953	08/22/95	Hansen et al.	
		5,474,935	12/12/95	Chatterjee et al.	
		5,521,291	05/28/96	Curiel et al.	
		5,534,423	07/09/96	Plasson et al.	
		5,543,328	08/06/96	Meckelland et al.	
		5,547,932	08/20/96	Curiel et al.	
		5,552,311	09/03/96	Sorscher et al.	
		5,559,099	09/24/96	Wickham et al.	
		5,571,698	11/05/96	Ladner et al.	
		5,622,699	04/22/97	Ruostlahti et al.	
		5,712,136	01/27/98	Wickham et al.	
		5,731,190	03/24/98	Wickham et al.	
		5,756,086	05/26/98	Meckelland et al.	
		5,770,442	06/23/98	Wickham et al.	
		5,837,511	11/17/98	Flack-Pedersen et al.	
		5,846,782	12/08/98	Wickham et al.	
		5,849,561	12/15/98	Falck-Pedersen	
MM		5,856,152	01/05/99	Wilson et al.	
		5,871,727	02/16/99	Curiel	

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		Country Code ² - Number ³ - Kind Code ⁴ (if known)				
MM		WO 93/03769	03/04/93	U.S. Dept. of Health and Human Services		
		WO 93/06223	04/01/93	Centre National De La Recherche Scientifique		
		WO 93/07282	04/15/93	Boehringer Ingelheim International GMBH		
		WO 93/07283	04/15/93	Boehringer Ingelheim International GMBH		
		WO 94/08026	04/14/94	Rhone-Poulenc Rorer S.A.		
MM		WO 94/10323	05/11/94	Imperial Cancer Research Technology Limited		

Examiner
Signature

M. Marvich

Date
Considered

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		Number - Kind Code ² (if known)			
YMA		5,871,982	02/16/99	Wilson et al.	
		5,877,011	03/02/99	Armentano et al.	
		5,922,315	07/13/99	Roy	
		5,994,128	11/30/99	Fallaux et al.	
		6,033,908	03/07/00	Bout et al.	
		6,057,155	05/02/00	Wickham et al.	
		6,100,086	08/08/00	Kaplan et al.	
		6,127,525	10/03/00	Crystal et al.	
		6,287,857	09/11/01	O'riordan et al.	
		6,306,652	10/23/01	Fallaux et al.	
YMA		6,486,133	11/26/02	Herlyn et al.	
		6,492,169	12/10/02	Vogels et al.	
		6,669,942	12/30/03	Perricaudet et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
YMA		WO 94/11506	05/26/94	Arch Development Corporation		
YMA		WO 94/15644	07/21/94	Imperial Cancer Research Technology Limited		
YMA		WO 94/17832	08/18/94	The Scripps Research Institute		
YMA		WO 94/24299	10/27/94	Boehringer Ingelheim International GmbH		
YMA		WO 94/26915	11/24/94	The Regents of the University of Michigan		
YMA		WO 95/05201	02/23/95	Genetic Therapy, Inc.		

Examiner
Signature

M. Marvich

Date
Considered

5/10/05

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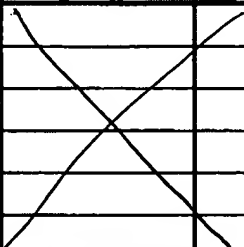
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/348,354
				Filing Date	July 7, 1999
				First Named Inventor	Havenga et al.
				Group Art Unit	1636
				Examiner Name	M. Marvich
				Attorney Docket Number	2578-4123.2US
Sheet	5	of	22		

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials ^a	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² - Number ⁴ - Kind Code ³ (if known)				
WMM		WO 95/31187	11/23/95	McMaster University		
WMM		WO 95/31566	11/23/95	Viagene, Incorporated		
WMM		WO 96/00326	01/04/96	Reinert, Gary, L., Sr.		
WMM		WO 96/00790	01/11/96	Rhone-Poulenc Rorer S.A.		
WMM		WO 96/07739	03/14/96	Neurocrine Biosciences, Incorporated		
WMM		WO 96/10087	04/04/96	Rhone-Poulenc Rorer S.A.		

Examiner Signature	M. Manick	Date Considered	5/10/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	6	of	22
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Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123.2US

U.S. PATENT DOCUMENTS

[illegible]

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY			
WMM		WO 96/12030	04/25/96	Rhone-Poulenc Rorer S.A.	X	
WMM		WO 96/13598	05/09/96	The Trustees of the University of Pennsylvania		
WMM		WO 96/13597	05/09/96	The Trustees of the University of Pennsylvania		
WMM		WO 96/14837	05/23/96	Genetic Therapy, Inc.		
WMM		WO 96/17073	06/06/96	Takara Shuzo Co., LTD.		
		WO 96/ 18740	06/20/96	Rhone-Poulenc Rorer S.A.		

Examiner Signature	<i>M. Thurnick</i>	Date Considered	5/10/08
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Sheet	7	of	22
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Application Number	09/348,354
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MM		WO 96/24453	08/15/96	Withers, Graham, Rex		
MM		WO 96/26281	08/29/96	Genvec, Inc. Cornell Research Foundation, Inc.		
MM		WO 96/35798	11/14/96	Introgene B.V.		
MM		WO 97/00326	01/03/97	Introgene B.V.		
MM		WO 97/12986	04/10/97	Cornell Research Foundation, Inc.		
MM		WO 97/20575	06/12/97	The University of Alabama at Birmingham Research Foundation		

**Examiner
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Date Considered

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Sheet	8	of	22
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MM		WO 97/38723	10/23/97	Immunol Incorporated		
MM		WO 98/07865	02/26/98	Genvec, Inc.		
MM		WO 98/11221	03/19/98	Dana-Farber Cancer Institute		
MM		WO 98/13499	04/02/98	The Scripps Research Institute		
MM		WO 98/22609	05/28/98	Genzyme Corporation		
MM		WO 98/ 32842	07/30/98	Genetic Therapy, Inc.		

**Examiner
Signature**

M Vharich

Date Considered

5/10/08

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MM		WO 98/40509	09/17/98	Genvec, Inc.		
MM		WO 98/49300	11/05/98	Collateral Therapeutics		
MM		WO 98/50053 A1	11/12/98	Genetic Therapy, Inc.		
MM		EP 1016726	12/30/98	Intogene B.V.		
MM		WO 99/32647	07/01/99	Intogene B.V.		
MM		EP 1067188	07/08/99	Intogene B.V.		

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MM		WO 99/47180A1	09/23/99	Genzyme Corporation		
MM		WO 99/55132	11/04/99	Introgene B.V.		
MM		WO 99/58646	11/18/99	Genera S.P.A.		
MM		EP 1020529	11/19/99	Introgene B.V.		
MM		WO 00/03029	01/20/00	Introgene B.V.		
MM		WO 00/24730 A2	05/04/00	The University of British Columbia		

Examiner Signature	<i>M. Harris</i>	Date Considered	5/10/05
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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123.2US

Sheet	11	of	22
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁶ - Kind Code ⁵ (if known)				
WMM		WO 00/31285	06/02/00	Intogene B.V.		
WMM		WO 00/52186	09/08/00	Intogene B.V.		
WMM		WO 00/70071 A1	11/23/00	Intogene B.V.		
WMM		WO 01/04334	01/18/01	Intogene B.V.		
WMM		WO 01/0158 A1	11/29/01	Crucell Holland B.V.		
WMM		WO 02/24730	03/28/02	Crucell Holland B.V.		
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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123 21JS

NON PATENT LITERATURE DOCUMENTS

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MM		ABRAHAMSEN et al., "Construction of an Adenovirus Type 7a E1A Vector," JOURNAL OF VIROLOGY, NOV. 1997, P. 8946-8951 Vol. 71, No. 11.	
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Sheet 13 of 22

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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123-2115

NON PATENT LITERATURE DOCUMENTS

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mm	:	BOURNELL et al., "In vitro construction of a recombinant adenovirus Ad2:Ad5," Gene, 13, 311-317 (1981).	
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Sheet 14 of 22

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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123 21US

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/348,354
		Filing Date	July 7, 1999
		First Named Inventor	Havenga et al.
		Group Art Unit	1636
		Examiner Name	M. Marvich
		Attorney Docket Number	2578-4123 21US
Sheet	15	of	22

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MM		GREBER et al., "Stepwise Dismantling of Adenovirus 2 during Entry into Cells," Cell, 75, 477-486 (1993).	

Examiner Signature	M. Marvich	Date Considered	5/10/05
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Sheet 16 of 22

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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123 21JS

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mm		GREEN et al., "Evidence for a repeating cross- sheet structure in the adenovirus fibre," EMBO Journal, 2(8), 1357-1365 (1983).	
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Sheet 17 of 22

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Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
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MM		IMLER et al., "Novel complementation cell lines derived from human lung carcinoma A549 cells support the growth of E1-deleted adenovirus vectors," Gene Therapy, Vol. 3: p. 75-84, 1996.	
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MM		LATTANZI, LAURA, et al., "High Efficiency Myogenic Conversion of Human Fibroblasts by Adenoviral Vector-mediated MyoD Gene Transfer," 101(10) J. Clin. Invest. 2119-28 (May 1998).	
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mm		LI et al., "Genetic Relationship between Thirteen Genome Types of Adenovirus 11, 34, and 35 with Different Tropisms," Intervirology 1991;32:338-350.	
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Examiner Signature	<i>M. Marvich</i>	Date Considered	5/10/05
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Sheet 19 of 22

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Application Number	09/348,354
Filing Date	July 7, 1999
First Named Inventor	Havenga et al.
Group Art Unit	1636
Examiner Name	M. Marvich
Attorney Docket Number	2578-4123 21US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MM		NEDA et al., "Chemical Modification of an Ecotropic Murine Leukemia Virus Results in Redirection of Its Target Cell Specificity," Journal of Biological Chemistry, 266(22), 14143-14146 (1991).	
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MM		ROBBINS et al., "Viral Vectors for Gene Therapy," Pharmacol. Ther. Vol. 80, No. 1, pp. 35-47, 1998.	
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MM		STEVENSON et al.; Selective Targeting of Human Cells by a Chimeric Adenovirus Vector Containing a Modified Fiber Protein, 1997, Journal of Virology, Vol. 71: 4782-4790.	
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				Examiner Name	M. Marvich
				Attorney Docket Number	2578-4123 US
Sheet	22	of	22		

[illegible]

Examiner Signature	M. Mennich	Date Considered	5/10/05
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